WHAT IS CLAIMED IS:

- 1. An apparatus for detecting flaws in a wafer comprising:
- a detection platform holding a wafer thereon for detecting;
- a cross-bar ultrasonic detection device positioned above said

 5 detection platform for emitting and receiving an ultrasonic wave reflected by the wafer; and
 - a microprocessor for processing said reflected ultrasonic and transmitting to a monitor; whereby detecting flaws in said wafer.
- 2. An apparatus for detecting flaws in a wafer according to claim 1, wherein said detection platform is a robot arm for holding and drawing said wafer.
 - 3. An apparatus for detecting flaws in a wafer according to claim 1, wherein said detection platform is a chamber-module detection platform having a pad for carrying said wafer, and a table for carrying said pad.

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- 4. An apparatus for detecting wafer flaw according to claim 3, wherein said pad is formed with a pair of guiding tracks for guiding said ultrasonic detection device.
- 5. An apparatus for detecting flaws in a wafer according to claim 1,
 wherein said ultrasonic detection device has a transducer positioned
 above said detection platform, and a pair of supporting portion connected
 with two ends of the transducer, said transducer having an emitting
 portion and a receiving portion mounted therein.

- 6. An apparatus for detecting flaws in a wafer according to claim 5 further comprising a sensor mounted in the transducer or the supporting portions for sensing an incoming and outgoing of said wafer and transmitting a begging or an end message to said microprocessor.
- 7. An apparatus for detecting flaws in a wafer according to claim 1, wherein frequencies of said ultrasonic wave emitted by said ultrasonic detection device are between one hundred million and five thousands million hertz.
- 8. An apparatus for detecting flaws in a wafer according to claim 1,wherein a width of said ultrasonic detection device is wider than or equal to a radius of said wafer.
 - 9. A method for detecting flaws in a wafer comprising the steps of:
 providing a detection apparatus which comprises a detection
 platform for holding a wafer thereon, a cross-bar ultrasonic detection
 device positioned above said detection platform, and a microprocessor;

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emitting an ultrasonic wave toward a surface of said wafer and receiving a reflected wave from a bottom or a flaw in said wafer;

transmitting said reflected ultrasonic wave to said microprocessor and processing said reflected ultrasonic wave;

determining if said wafer has any flaw for marking the flawed wafer via said microprocessor; and

providing a sensor for inspecting if said wafer is transferred to an end thereof for controlling a detecting sequence.

- 10. A method for detecting flaws in a wafer according to claim 9 further comprising the step of beeping when detecting said wafer has flaw.
- 11. A method for detecting flaws in a wafer according to claim 9
 5 wherein said cross-bar ultrasonic detection device is positioned above said wafer.
 - 12. A method for detecting flaws in a wafer according to claim 9 wherein said ultrasonic detection device has an emitting portion and a receiving portion mounted therein.